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	RESEARCH CAPABILITIES
	Declass Review by NIMA/DOD
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RESEARCH CAPABILITIES

ATINTL	BACKGROUND
* - #	is a new organization
	specializing initially in Reconnaissance Data Acquisition, Reconnaissance Data
	Analysis, and Electronic Warfare.
ATINTL	Certain analysts now on the staff were instrumental in designing the
	Photo Intelligence components of an advanced satellite reconnaissance system
•	and a multi-sensor carrier-based subsystem. The use of a central data handling
•	facility with new-design viewing and display stations was basic to both. During
	the design of these subsystems, which stressed the value and importance of real-
	time data extraction and reporting, several new concepts were developed.
	Some of the analysts who worked on those projects are now members of a
	selected team of specialists, concentrating on the image analysis phase of another
	classified satellite reconnaissance program.
ATINT	One of "in-house" research efforts is aimed at putting the military
	intelligence-reconnaissance problem into proper perspective, and locating crit-
	ical "soft spots" that merit priority research and development. Emphasis on
	these areas has given the company a new awareness of the critical role of the
	image interpreter as it relates to his training, background, working environment,
	new multi-sensor image records, analysis equipment, reference materials, opera-
	tional intelligence requirements, and performance objectives.
	In the course of this investigation, has formulated a number of prob-
	1em areas and directions for courses of action, which include developing
	techniques, procedures, tools, devices, or entire subsystems essential to achiev-
	ing the goal of an all-weather, around-the-clock reconnaissance and surveillance
	capability.

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	STAFF CAPABILITY
	technical staff is uniquely qualified to work in this field because
	every member has a broad background of military training and operational experi-
e e e e	ence in addition to several years of direct investigative, design and development
	experience on various Intelligence-Reconnaissance and Electronic Countermeasure
	problems, components, subsystems and systems.
	Military experience for the group ranges from intelligence, cartographic,
	and electronic operations at the working level to participating in the planning
	and electronic operations at the working 10.02 to 1
	and execution of large-scale NATO and Inter-Service projects. Staff Research
	and Development experience includes design and development of techniques, tools,
	and materials for all phases of the operational Intelligence-Reconnaissance
	Cycle. Several of the larger and more recent projects involved equipment design
	criteria, component analysis, operator training and procedures, and determining
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·	senior analysts have extensive experience in direct research, analysis
:	and production of intelligence materials for the U.S. Air Force, the Navy and
į	other government agencies. Individuals have been active in panel discussions,
	other government agencies. Individuals have been doubted the feasibility and
	preparation of professional papers and conducting studies of the feasibility and
	utilization of various techniques, procedures, and devices pertaining to
	Intelligence and Reconnaissance functions.
1	Included in the areas of experience, training, and background of the intel-
	
	ligence team are:
	Operational Intelligence Targeting; Tactical and Strategic Targeting; Tactical and Strategic
	Preparation of Photo Interpretation keys and I-
	Redar Analysis and Frediction
	the second analysis
	Special weapons analysis selection, and tangeting
-	Photographic Engineering
	Photogrammetry
	Meteorology
	Aim Intelligence
	Atomic. Biological and Chemical Wartare
	Survival; Escape and Evasion

(See also Appendix A, Biographical Sketches of Staff)
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Antisubmarine Warfare

contributions to the Armed Forces in such activities as analysis, design, and project supervision in countermeasures systems and equipment including:

Electronic jamming systems

Electronic deception systems

Repeater jammers for use against missile guidance systems and fuses

Design of RF interference analysis equipment

Design and evaluation of RF suppression techniques

Microwave absorber research projects

Development of microwave absorbers on moving targets for radar camouflage

Measurement of RF interference from electronic equipment

Tactical antisubmarine warfare needs detection systems information integration and presentation; this situation will intensify as "stand off" detection and weapons utilization systems become more effective. plans to explore STATINTL the vital human factors problem with advanced, as well as current operational equipment; to determine required operator capabilities as well as fatigue and diversion of attention limitations. Several specific research projects within these fields are already being drafted.

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FACILITIES

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general office and work spaces are located at

A small electronics lab is set up in an

adjoining building which is equipped to perform microwave development and engineering work. It has special anechoic facilities for making reflection measurements on radar targets.

AFFILIATE CAPABILITIES

The experience and background of the staff is augmented when appropriate by a group of consultants having broad technical backgrounds in such fields as

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In addition, has established technical collaboration agreements with several other companies having strong engineering and/or manufacturing capabilities.

One of these organizations is considered among the foremost independent training device manufacturers in the airborne equipment field, with wide experience in electronic systems and small special-purpose computer engineering and production.

Another specializes in space problems, geodesy, and oceanography; their scientists are concerned with precise positioning, orientation, and range-testing of radio systems for air and marine navigation; geodetic control for aerial mapping; location of natural resources on land and under the sea; astronomic and gravity surveys; tracking guided missiles; harbor and waterway surveys, and exploratory submarine topographic surveys.

SUMMARY OF CAPABILITIES

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In short, is currently equipped to analyze and solve a wide variety of problems in the Intelligence-Reconnaissance area, Electronic Warfare, Space Programs, Antisubmarine Warfare, and Civil Defense. When forces are joined with other companies a strong integrated capability becomes available for systems and component analysis, design, simulation, development, tests and productions.

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Members of the technical staff have participated in the preparation of the publications, reports and papers listed below:

PHOTO INTERPRETATION KEYS

A. SUBJECT KEYS

Transportation and Wire Communications
Military Installations
Military Aircraft of the World
Airfield Installations (1959 Revision)
Soviet Land-Based Radar
Soviet Shipboard Radar and Communications
Soviet Communications
Troop Communications
Troop Presence
Public Utilities
Antiaircraft Positions

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B. REGIONAL KEYS

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USSR China The Caucasus Southeastern Europe

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TECHNICAL PAPERS

A Preferred Approach to the Photo Interpretation
of Industry
P.I. Keys for the Air Intelligence Officer
Color Film in Military Photo Interpretation
An Application of Models and Stereo Photographs
to Teaching Photography
Development of an Aerial Camera Pod
An Analysis of Rear Projection and Direct Viewing
for Tactical Use
Visual Acquisition of Tactical Atomic Targets
Development of Rocket-Assisted Mortar Projectiles
An Analysis of Marine Corps Aerial Photographic
Requirements

REPORTS

Photogrametric Design of 35mm and 70mm Stereo Cameras Tactical Terrain Analysis by P. I. An Antarctic Astronomic Control Method An Analysis of Eye Fixation, Eye Movement and Visual Acuity Tests

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Elementary Optics for the Military Photogrammetrist Evaluation of P. I. Keys The Marines Have Landed (An Analysis of Future Operations) Berdan's Sharpshooters (An Historical Analysis of Reconnaissance) Aerial Photography From Light Aircraft Military Maps Simplified The use of Aerial Photography in the Determination of Trafficability in Arctic Mountainous Terrain Interference Studies, Investigation and Tests to Develop Criteria for Minimizing Interference from Electric Arc Producing Devices Reflection Characteristics of Varying Terrains to Radar Signals

PATENTS

Photo Geometry Models (Patent No. 2,917,835) A combination Film Package and Slide Viewer (Patent No. 2,919,505) Next 13 Page(s) In Document Exempt